Dong Heon Han

dongheon@umich.edu

Robotics Department, University of Michigan, Ann Arbor, MI 48109, USA

Robot Collectives | Artificial Intelligence | Soft Robotics

EDUCATION

• University of Michigan PhD in Robotics	2029 Ann Arbor, MI
University of Michigan MS in Mechanical Engineering	2025 Ann Arbor, MI
• Georgia Tech BS in Mechanical Engineering	2021 Atlanta, GA

2021
Atlanta, GA
May 2025 - Present
Ann Arbor, MI
Aug 2023 - May 2025
Ann Arbor, MI
Jan 2022 - July 2023
Korea
Aug 2021 - Dec 2021
Seoul, Korea
Aug 2019 - Aug 2021
Atlanta, GA
Jun 2018 - Aug 2018
Daejeon, Korea

PATENTS AND PUBLICATIONS

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

- [C.1] R. Zuo, M. Mehta, D.H. Han, D. Bruder. "Embedded Valves for Distributed Control of Soft Pneumatic Actuators". 2024 IEEE International Conference on Intelligent Robots and Systems (IROS)
- [C.2] D.H. Han, S.J. Byeon, K.D. Kim, G.H. Han, M.H. Cha, Y.J. Park. "Development of Path Tracking Control Algorithm for Tractor Autonomous Driving". 2021 Korean Society for Agricultural Machinery Conference
- [P.1] Blowers With Variable Nozzles. US 11668311 B2. Issued June 6, 2023.
- [T.1] D.H. Han. "Towards a universal sensing framework for soft robots" 2025
- [S.1] D.H. Han, M. Mehta, R. Zuo, Z. Wanger, and D. Bruder. "An Enhanced Proprioceptive Method for Soft Robots Integrating Bend Sensor and IMU"
- [S.2] D.H. Han, D. Bruder. "Shape-Morphing Strain Sensing Structure for Enhanced Proprioception in Soft and Wearable Robots"
- [S.3] D.H. Han, X. Xu, X. Huang. "Towards Bio-Inspired Dexterity: Adaptive Collaborative Grasping via Distributed Self-Sensing Soft Actuators"

HONORS AND AWARDS

HONORS AND AWARDS	
• VIP Innovation Competition, 1st Place in Hardware, Devices & Robotics Track Georgia Tech	Apr 2021
 Awarded to the most innovative and active research team in Georgia Tech 	
• President's Undergraduate Research Award Georgia Tech	Oct 2020
Research excellence scholarship as an undergraduate researcher at Georgia Tech	
• Georgia Korean American Grocers Association Scholarship Award KAGRO	Dec 2016
 Awarded for academic excellence and leadership in community service 	

• Kappa Mu Epsilon May 2018

Mathematics honor society